

What is claimed is:

1. A surge suppression and protection device for use with electrical equipment and devices and data communication lines having a plurality of conductors, the surge suppression and protection device comprising:

a) at least one set of two coils for each of the plurality of conductors, the two coils disposed in close proximity to one another, a first coil having a first set of windings, a second coil having a second set of windings, the first and second windings placed an angle to one another, each set of two coils coupled in parallel to one another relative to the plurality of conductors, and

b) a multitude of surge elements connected in series to each of the set of two coils.

2. The surge suppression and protection device of claim 1, wherein the first coil first set of windings are disposed at a ninety degree angle to the second coil second set of windings.

3. The surge suppression and protection device of claim 1, wherein the first coil first set of windings are disposed at a non-parallel angle to the second coil second set of windings.

4. The surge suppression and protection device of claim 1, wherein the first coil first set of windings substantially surround the second coil second set of windings.

5. The surge suppression and protection device of claim 1, wherein the second coil second set of windings has a top surface and the first coil first set of windings are disposed upon the second coil second set of windings top surface separated by a small air space.
6. The surge suppression and protection device of claim 1, wherein the first coil first set of windings are intertwined with the second coil second set of windings.
7. The surge suppression and protection device of claim 1, wherein the multitude of surge elements are chosen from the group consisting of metal oxide varistors, avalanche diodes or gas tubes.
8. The surge suppression and protection device of claim 7, wherein a pair of metal oxide varistors are employed for each of the first and second coils.
9. The surge suppression and protection device of claim 1, wherein the electrical equipment and devices are connected to an electrical power line having a phase chosen from the group consisting of single, two or three phase lines.
10. The surge suppression and protection device of claim 1, wherein the device is connected directly to an AC electrical receptacle.

11. The surge suppression and protection device of claim 1, wherein the device is completely enclosed within a box having a housing.

12. The surge suppression and protection device of claim 11, wherein the box comprises an AC plug mounted on a back side of the housing for inserting within an AC receptacle of a power line and at least one AC receptacle mounted on the box housing such that it is accessible for receiving a plug of an electrical device.

13. The surge suppression and protection device of claim 12, wherein the box further comprises a switch mounted on the housing for providing an on/off toggle for the surge suppression and protection device.

14. The surge suppression and protection device of claim 11, wherein the box comprises a plurality of terminals for hard-wiring electrical equipment or devices or data communication lines directly to the surge suppression and protection device.

15. A surge suppression and protection device for use with electrical equipment and devices and data communication lines having a plurality of conductors, the surge suppression and protection device comprising:

a) a first and second coil disposed in close proximity to one another coupled in parallel to two of the each of the plurality of conductors, the first coil having a first set of

windings, the second coil having a second set of windings, the first and second windings placed an angle to one another,

b) a multitude of metal oxide varistors connected in series to each first and second coil.

16. The surge suppression and protection device of claim 15, wherein the first coil first set of windings are disposed at a ninety degree angle to the second coil second set of windings.

17. The surge suppression and protection device of claim 15, wherein the first coil first set of windings substantially surrounds the second coil second set of windings.

18. The surge suppression and protection device of claim 15, wherein the second coil second set of windings has a top surface and the first coil first set of windings are disposed upon the second coil second set of windings top surface separated by a small air space.

19. The surge suppression and protection device of claim 15, wherein the first coil first set of windings are intertwined with the second coil second set of windings.

20. The surge suppression and protection device of claim 15, wherein the electrical equipment and devices are connected to an electrical power line having a phase chosen from the group consisting of single, two or three phase lines.

21. The surge suppression and protection device of claim 15, wherein the device is completely enclosed within a box having a

housing.

22. The surge suppression and protection device of claim 21, wherein the box comprises an AC plug mounted on a back side of the housing for inserting within an AC receptacle of a power line, at least one AC receptacle mounted on the housing such that it is accessible for receiving a plug of an electrical device and a switch mounted on the housing for providing an on/off toggle for the surge suppression and protection device.

23. The surge suppression and protection device of claim 21, wherein the box comprises a plurality of terminals for hard-wiring electrical equipment or devices or data communication lines directly to the surge suppression and protection device.